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basic imagery interpretation report

Tyuratam Space Launch Site A1 USSR (S)

MISSILE RANGES: STRATEGIC SSM SPACE FACILITIES

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INSTALLATION OR ACT	TIVITY NAME				COUNTRY	
Tyuratam Space Launch Site AI UR						
					NIETB NO.	05)
NA MAP REFERENCE	45-55-16N 06	3-20-30E				25X
SAC. USATC.	Series 200, Sheet 0	246-13. scale 1:	200 000			
LATEST IMAGERY USED			NEGATION DATE (If required)		
			NA	NA		
versions of the S I and launched f 2. (S/D) S periods of refur observed at Lau observed. Severa 3. (S/D) additions at the	S-6 ICBM. All of the from Launch Site A Since the previous bishment activity—anch Site Al. Nor I ancillary features This report describ	aunch Site A1 hese space laun 1. NPIC report, during the spr nodifications to at the site have es this refurbis the major additional to the major additional to the site have the major additional to the major additional to the site have the major additional to the major additional to the site has the site has the site has the major additional to the site has the site	ing of 1970 and the late we the launch pad or to the been modified or constructes shment activity at the laurations to buildings at Test	in December 1966 inter-spring of 1976 service gantry towed.	pport Facility 6, two major 9—have been ver have been fications and	25
4.	Tyuratam Space	INTR	CODUCTION At is in the center of the poort base (Figures 1 and	Tyuratum rangehe	ead, approxi-	25
Facility 1 were in use who The facilities we 1960, all SS-6 10 of Tyuratam Sp. Site A1 has on	the or en the first US over ere probably started CBMs and space v ace Launch Site Bl ly been involved i the test center. F	iginal facilities erhead photogr I in 1955 and ehicle versions in late 1960, n supporting s	at the Tyuratam Missile a aphy of the rangehead was were completed in early 19 of the SS-6 were fired from the SS-6 ICBM firings were space vehicle launches and modifications, and additional additional actions are spaced to the state of th	and Space Test Cers obtained in late 1957. During the permissite Al. With the moved to site Blis the primary m	nter (MSTC), August 1957. eriod 1957 to e completion . Since 1961, nanned space	25
		BASIC 1	DESCRIPTION			
(Figure 3). An arms mounted a vertical arms ser a support arm 1 tower arms have to launching. T lightning arrester	opening 15 meters iround and on the ve as launch vehic for the necessary to circular work play he loading azimut towers, each about	in diameter is aperture ring le stabilization imbilical connectorms which each of the laund 73 meters high		ad with seven movelaunch pad. Four tower arms, and of the (Figure 4).3 The during the checkoust pad is flanked by	vable vertical of the seven one serves as e two service t phase prior oy a pair of	
tion of the sout apron. Also, the diameter tanks. in size. No additi	h wall of the exha roof had been rer Additions were ma ional tanks were ide	ust pit. Equipi noved from a de to this buil- ntified during t	ent of the launch site was ment, material, and vehicle partially underground build ding during the January 19 he 1979 refurbishment.	s were seen on the ding exposing at le 179 refurbishment t	e launch pad ast 30 small- hat tripled it	
ment, material, a movable vertical placed on the p service tower we gantry service to during the lates related building;	and vehicles were s arms that make u bad approach apro ere observed. Becau ower was taken d et refurbishment co the addition of a su	een again on t p the gantry s on (Figure 3), use of the lack own and later onsisted of tri apport building	on refurbishment of the lause he launch pad apron. Duriervice tower were removed and later reassembled. No of timely coverage in Aproper reassembled. The construction of the particular the excavation of seven small exhaust pit. The function	ng this refurbishme from the launch p o modifications to ril 1979, it is not la action activity seer tially underground all-diameter silo co	ent the seven bad aperture, to the gantry known if the at site Al propellant- rings (Figure	
			1			25X1

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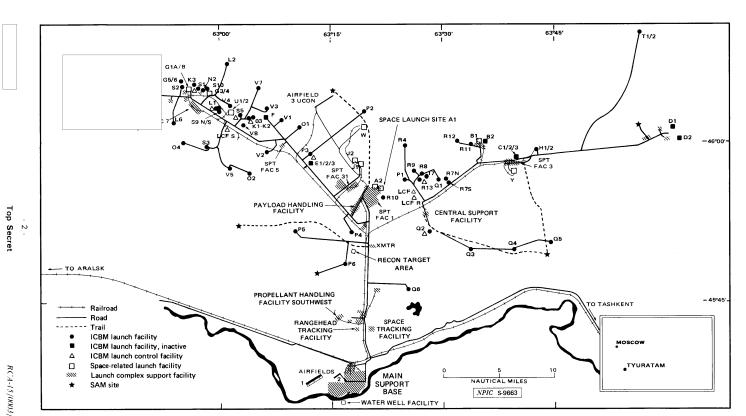


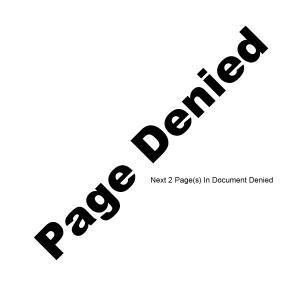
FIGURE 1. FACILITIES AT TYURATAM MISSILE/SPACE TEST CENTER SSM, USSR

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mately silo corings is not known. When this area was last observed, a cover had been placed over each approximately coring.	25X1 25X1
8. (TSR) On an SL-04 launch vehicle was seen erected on launch pad A1 (Figure 6). Since this vehicle was not launched, it was probably being used to check out the launch pad for an actual launch in the future.	25X1
9. (TSR) Test Support Facility 1 (Figure 2) is connected by rail to Space Launch Site A1 and to Space Launch Site J1/2 and has supported both launch sites. Originally, it consisted of two assembly and checkout areas. The first area contains the original assembly building and a spacecraft preparation building that has supported sites J1/2 and A1. An addition to the original assembly building was constructed between July 1973 and May 1974. Also, an addition was made to the spacecraft preparation building between December 1968 and February 1970. The second assembly and checkout area supported the SS-6 payloads—both weapons and space. With the completion of Space Launch Site B1, this area supported the SS-9 weapons program and subsequently supported the SS-17 and SS-18 weapons programs. The area is now designated the Tyuratam MSTC Payload Handling Facility	25X1
REFERENCES	
IMAGERY	
(TSR) All applicable KEYHOLE imagery acquired from July 1966 through was used in the preparation of this report.	25 X 1
MAPS OR CHARTS	
SAC. US Air Target Chart, Series 200, Sheet 0246-13, scale 1:200,000 (UNCLASSIFIED)	
DOCUMENTS	
1. DOD/FTD. DST-1070S-311-76-SA0, Tyuratam Missile Test Range (U) 27 Aug 79 (TOP SECRET	25X1 25X1
2. NPIC Tyuratam Missile Test Center Launch Complex A, Dec 66 (TOP SECRET 3. Air et Cosmos (magazine, in French), No 710, 18 March 1978 (UNCLASSIFIED)	25 X 1
RELATED DOCUMENT	
NPIC. CA-15/0006/79, Activity and Developments at Tyuratam Missile/Space Test Center SSM, May 1978 – November 1979 (TSR), Apr 80 (TOP SECRET	25X1 25X1

REQUIREMENT

COMIREX P02 Project 200007DP

(S) Comments and queries regarding this report are welcome. They may be directed to

Soviet Strategic Forces Division, Imagery Exploitation Group, NPIC,

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